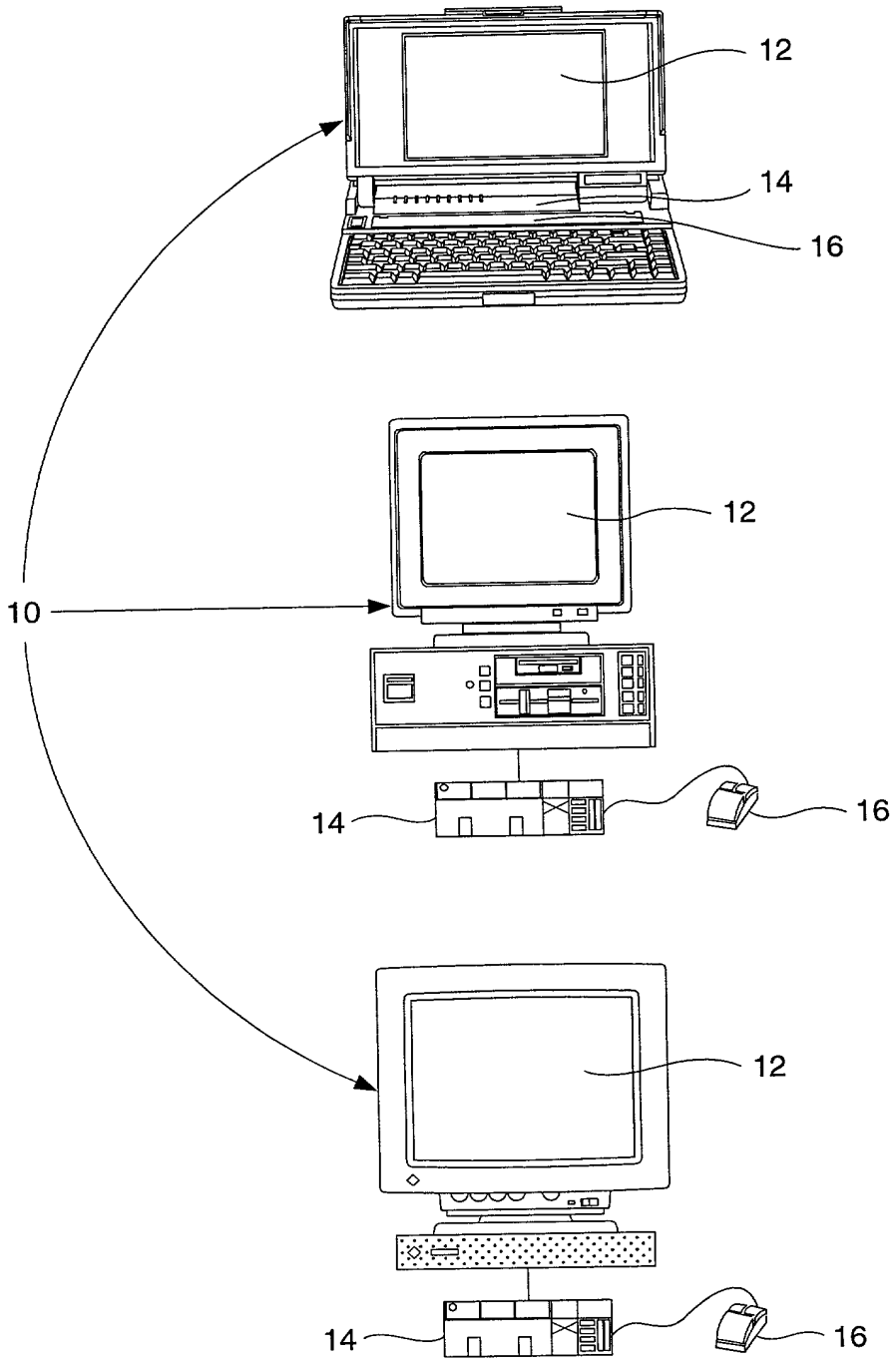
Fig. 1



09/890,760 - 05/28/98

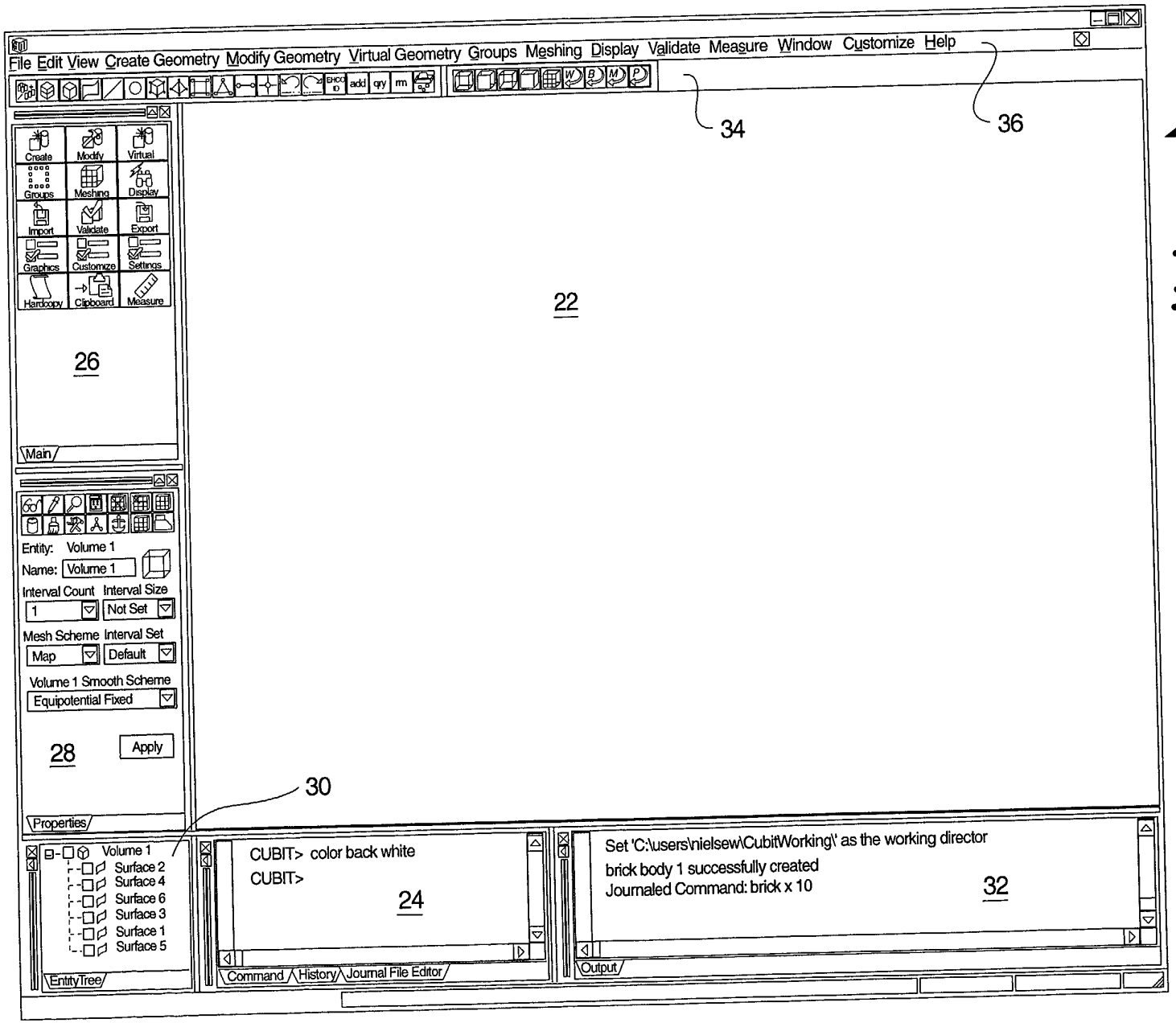

File Edit View Create Geometry Modify Geometry Virtual Geometry Groups Meshing Display Validate Measure Window Customize Help
34
36
20
22
Create
Modify
Virtual
Groups
Meshing
Display
Import
Validate
Export
Graphics
Customize
Settings
Hardcopy
Clipboard
Measure
26
Main
Entity: Volume 1
Name: Volume 1
Interval Count
Interval Size
1
Not Set
Mesh Scheme
Interval Set
Map
Default
Volume 1 Smooth Scheme
Equipotential Fixed
28
Apply
30
Properties
Volume 1
Surface 2
Surface 4
Surface 6
Surface 3
Surface 1
Surface 5
EntityTree
CUBIT> color back white
CUBIT>
24
Command
History
Journal File Editor
Set 'C:\users\nielsew\CubitWorking\' as the working director
brick body 1 successfully created
Journaled Command: brick x 10
32
Output

Fig-2-

Fig. 3a

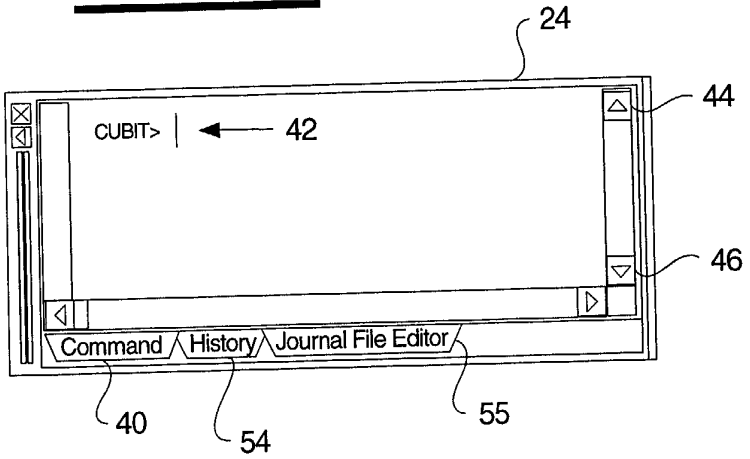

24
CUBIT>
42
44
46
Command
History
Journal File Editor
40
54
55

Fig. 3b

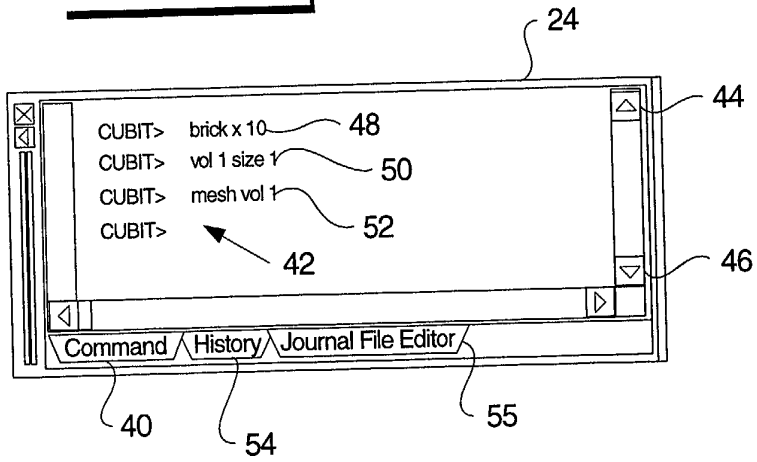

24
CUBIT> brick x 10
48
CUBIT> vol 1 size 1
50
CUBIT> mesh vol 1
52
CUBIT>
42
44
46
Command
History
Journal File Editor
40
54
55

FIG-3C-

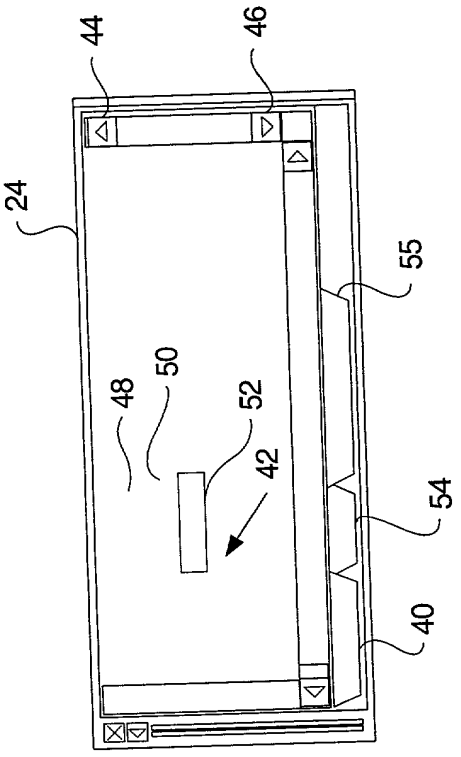


FIG. 3d.

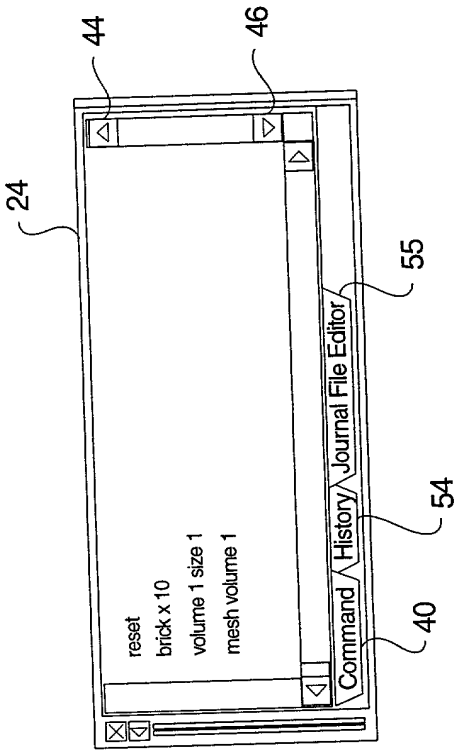

24
44
46
55
54
40
reset
brick x 10
volume 1 size 1
mesh volume 1
Command
History
Journal
File Editor

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Fig-4a-

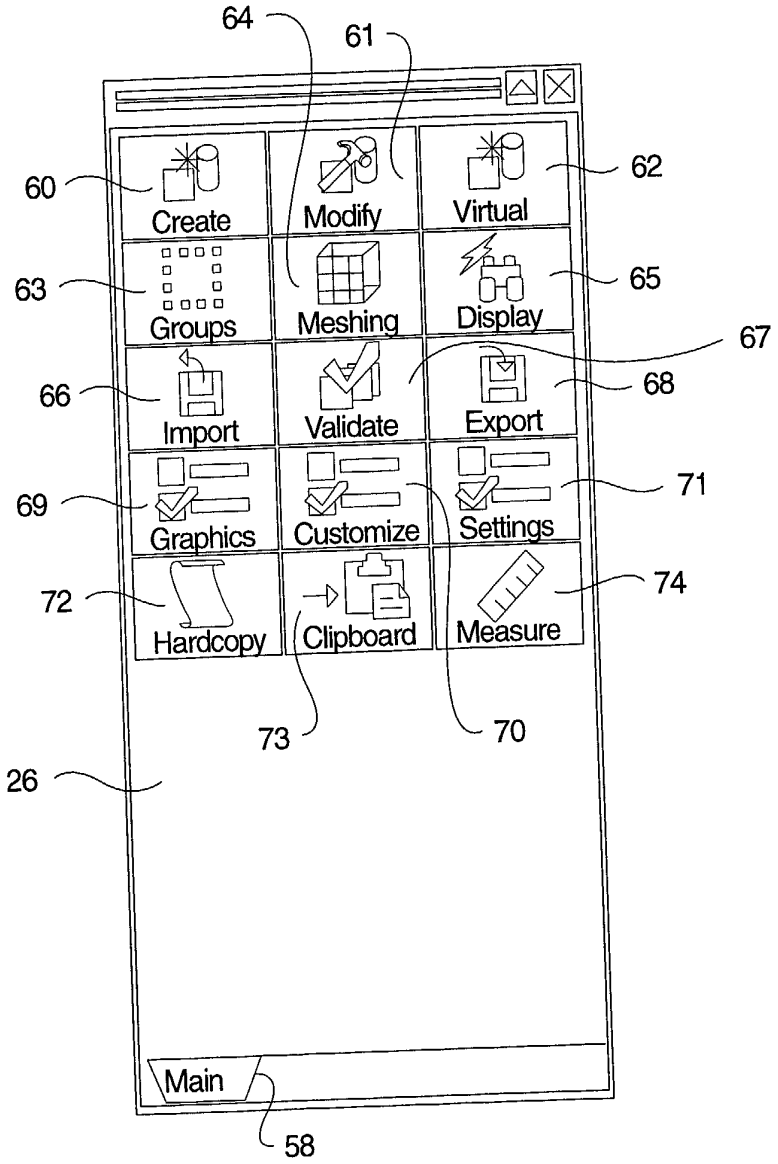


Fig. 4b

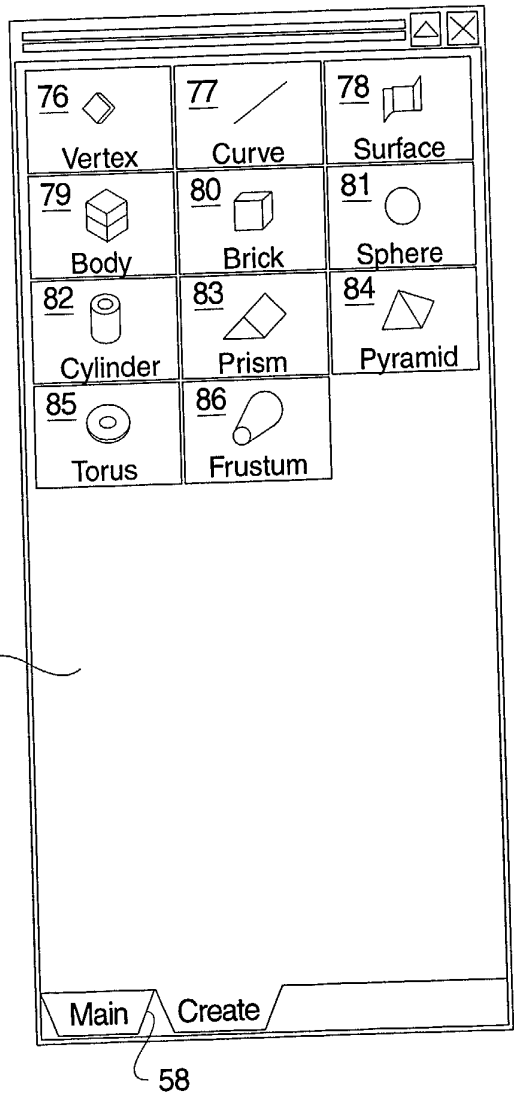

76 Vertex
77 Curve
78 Surface
79 Body
80 Brick
81 Sphere
82 Cylinder
83 Prism
84 Pyramid
85 Torus
86 Frustum
Main
Create
26
58

Fig. 4c

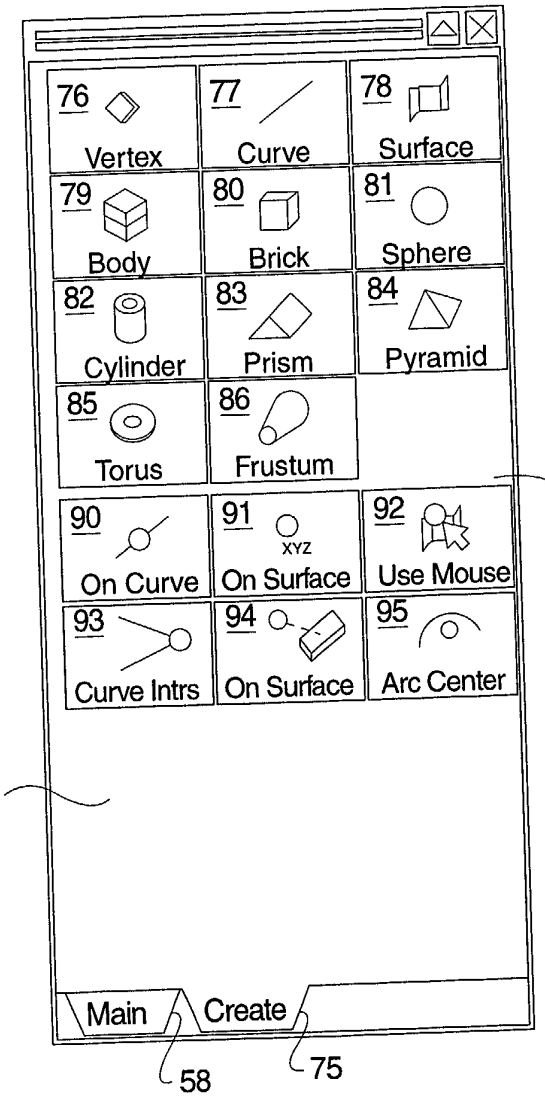

76 Vertex
77 Curve
78 Surface
79 Body
80 Brick
81 Sphere
82 Cylinder
83 Prism
84 Pyramid
85 Torus
86 Frustum
90 On Curve
91 XYZ On Surface
92 Use Mouse
93 Curve Intrs
94 On Surface
95 Arc Center
88
Main
Create
26
58
75

Fig-4d-

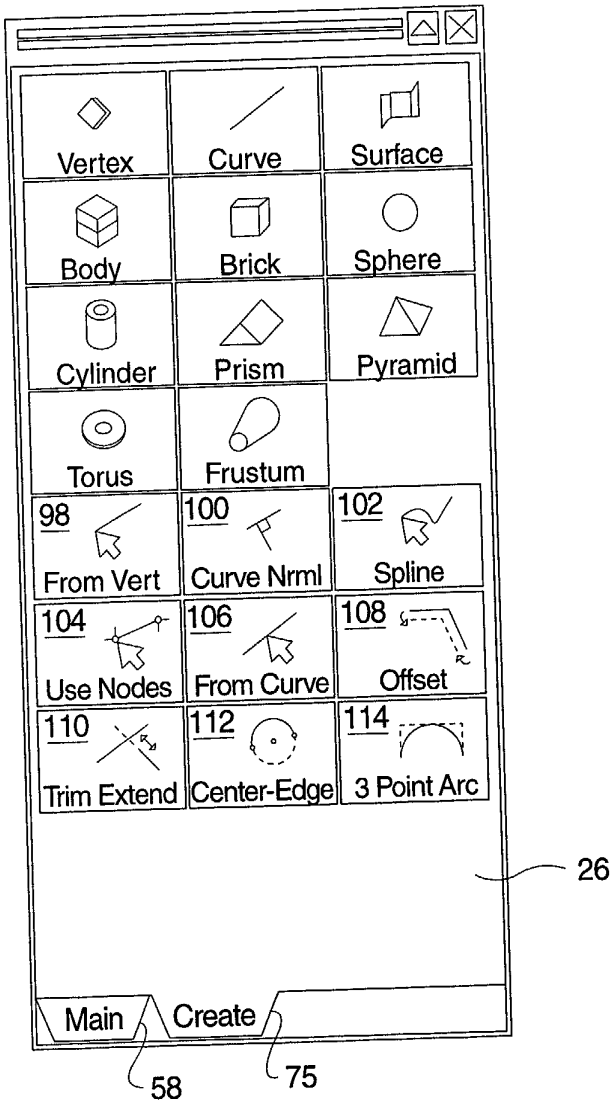
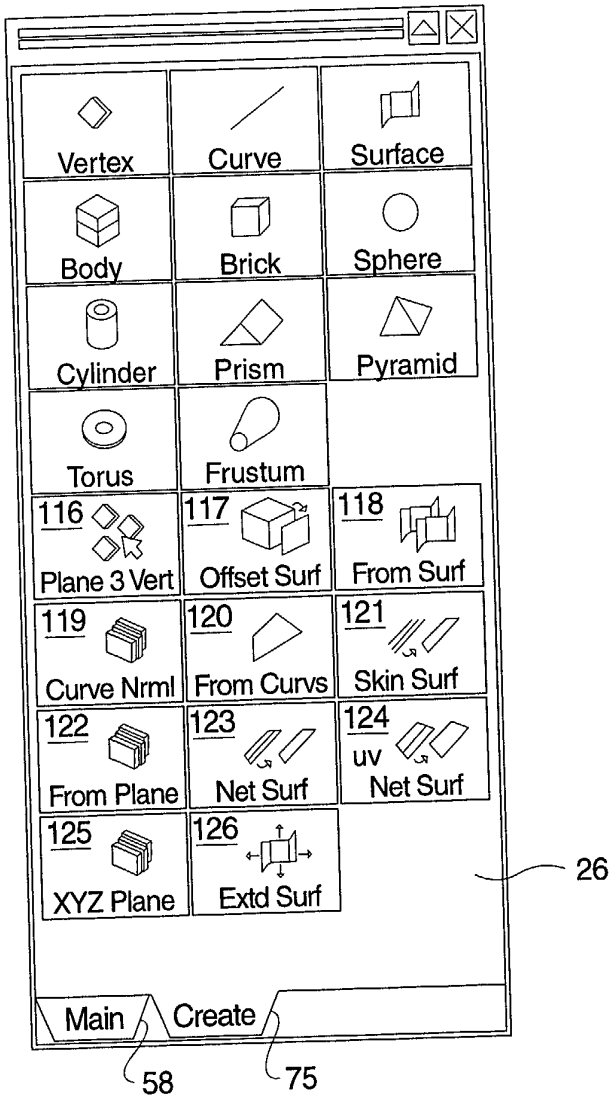

Vertex
Curve
Surface
Body
Brick
Sphere
Cylinder
Prism
Pyramid
Torus
Frustum
98
From Vert
100
Curve Nrml
102
Spline
104
Use Nodes
106
From Curve
108
Offset
110
Trim Extend
112
Center-Edge
114
3 Point Arc
26
Main
Create
58
75

Fig-4e-


Vertex
Curve
Surface
Body
Brick
Sphere
Cylinder
Prism
Pyramid
Torus
Frustum
116
Plane 3 Vert
117
Offset Surf
118
From Surf
119
Curve Nrml
120
From Curvs
121
Skin Surf
122
From Plane
123
Net Surf
124
uv
Net Surf
125
XYZ Plane
126
Extd Surf
26
Main
Create
58
75

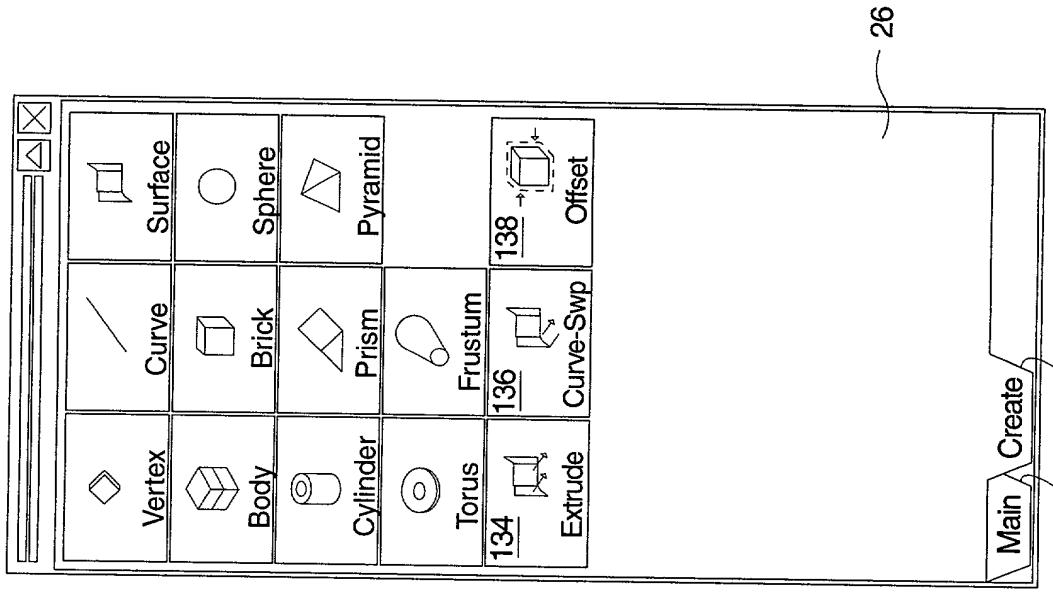

Vertex
Curve
Surface
Body
Brick
Sphere
Cylinder
Prism
Pyramid
Torus
Frustum
134
Extrude
136
Curve-Swp
138
Offset
Main
Create
26
75
58

FIG-4F-

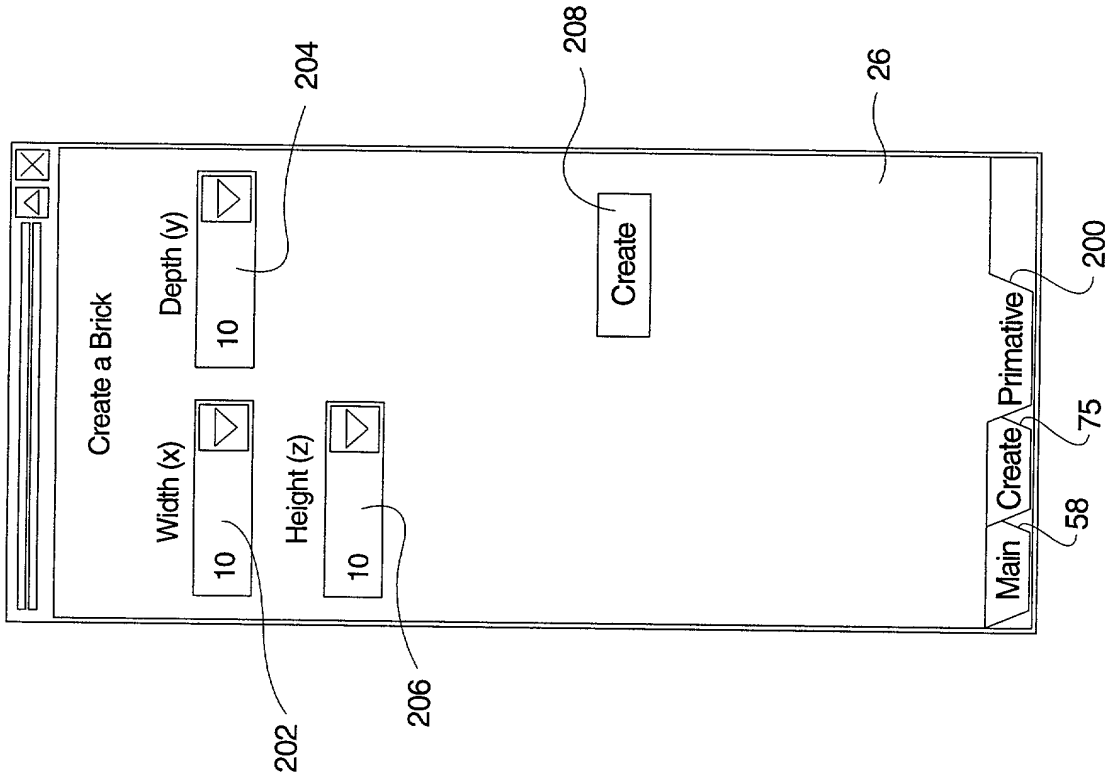

Create a Brick
Depth (y)
10
Width (x)
10
Height (z)
10
Create
Primative
Create
Main
200
75
58
26
208
204
202
206

FIG-49-

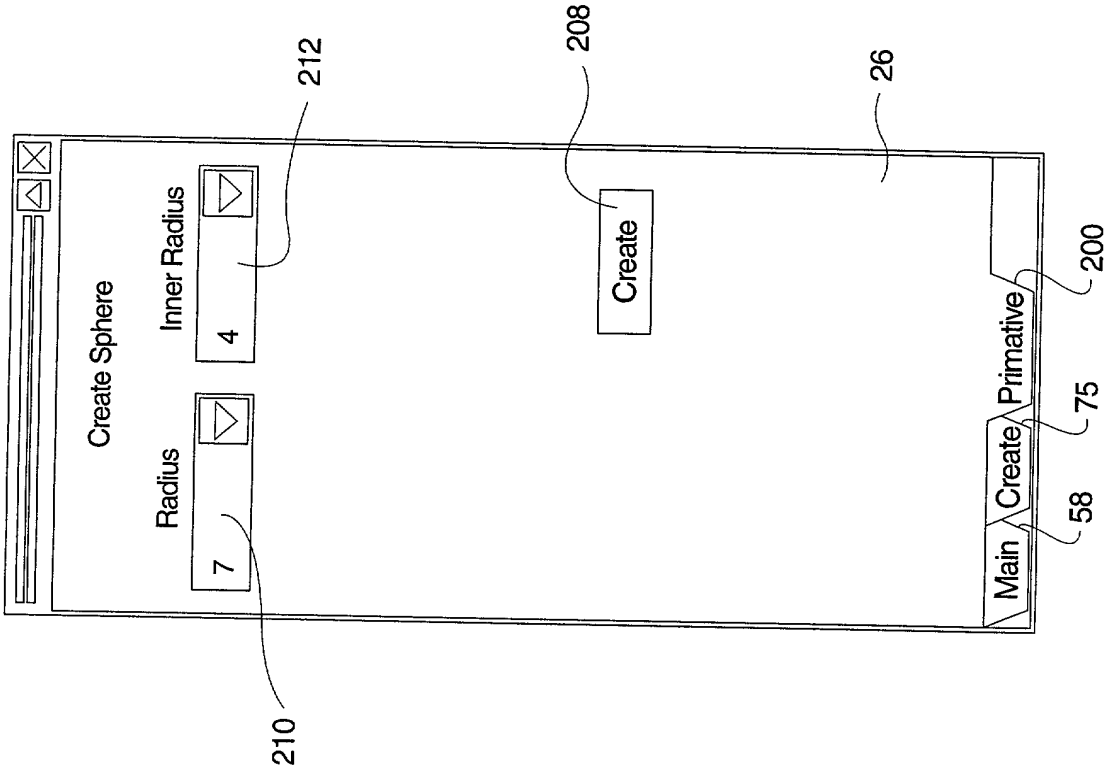

Create Sphere
Inner Radius
4
Radius
7
Create
Primative
Create
Main
212
208
26
200
75
58
210

Fig-4h-

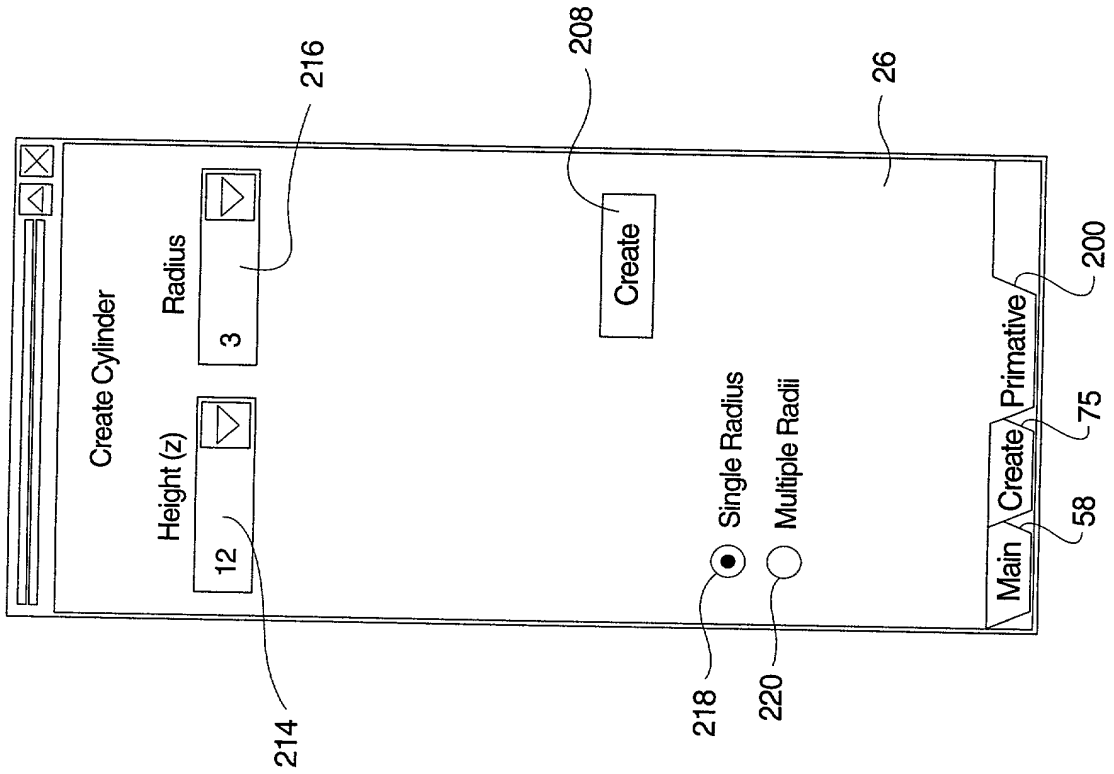

Create Cylinder
Height (z)
12
Radius
3
Create
Single Radius
Multiple Radii
Main
Create
Primative
214
216
208
26
218
220
200
75
58

FIG-4i-

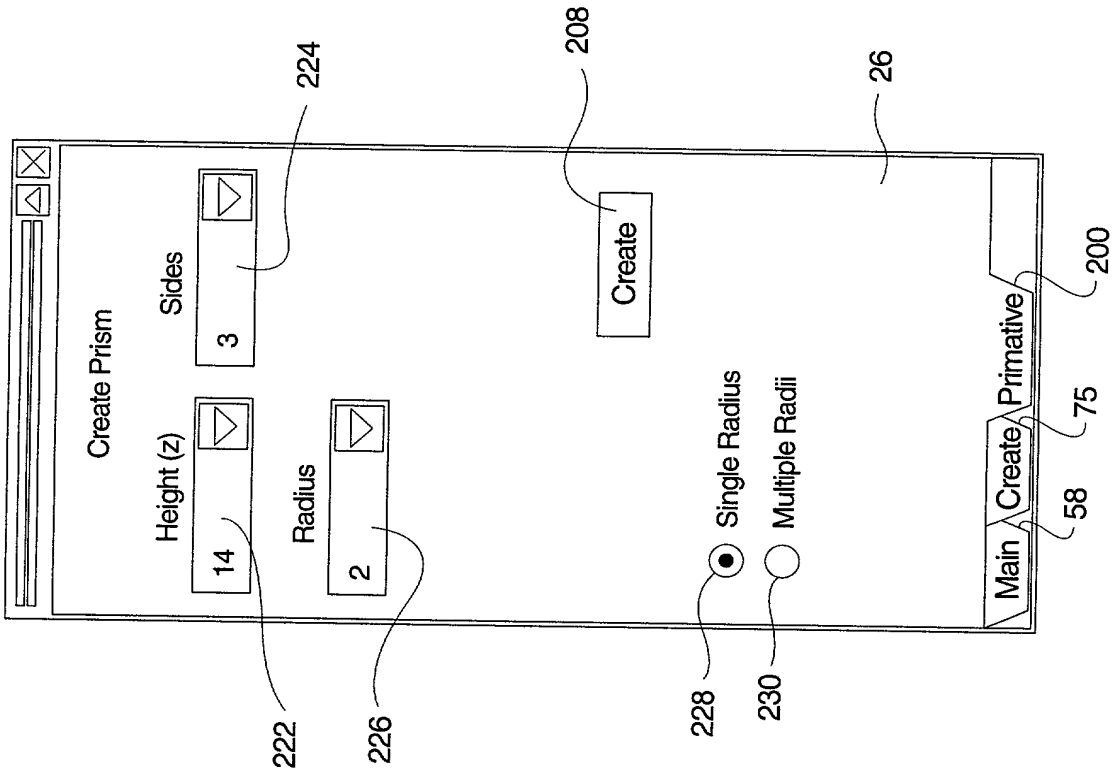

Create Prism
Height (z)
14
Radius
2
Sides
3
Create
Single Radius
Multiple Radii
Main
Create
Primative
222
226
224
208
26
228
230
200
75
58

Fig-4j-

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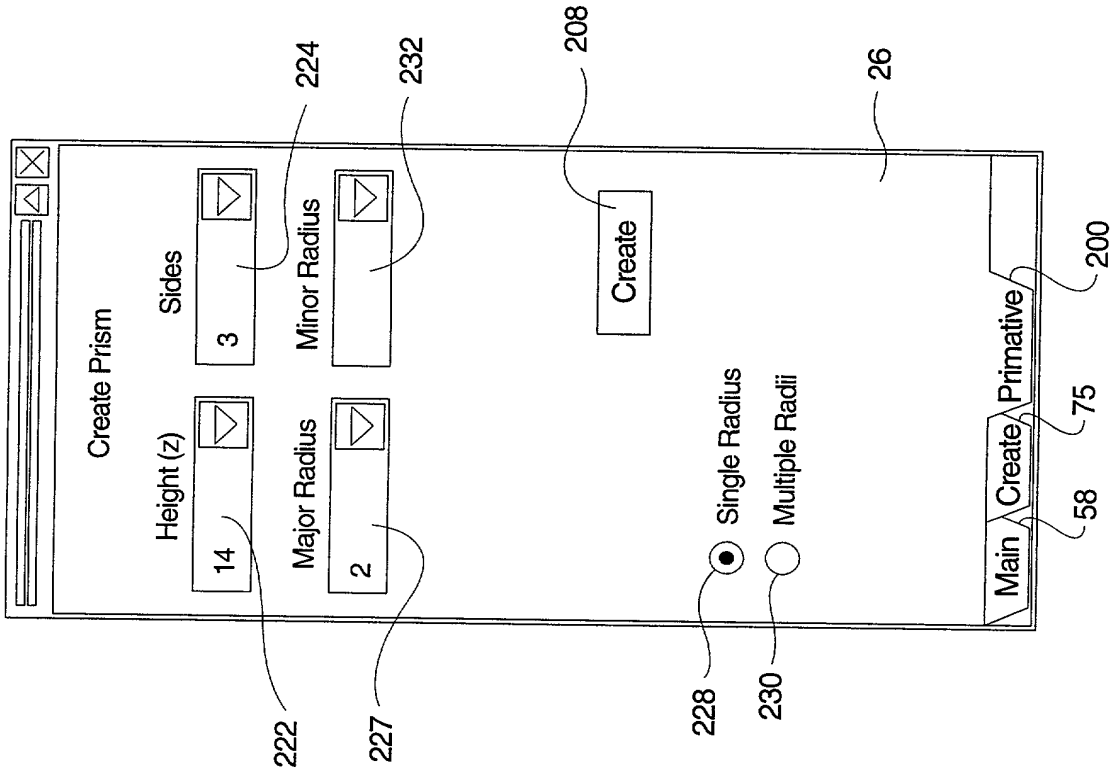

Fig-4h

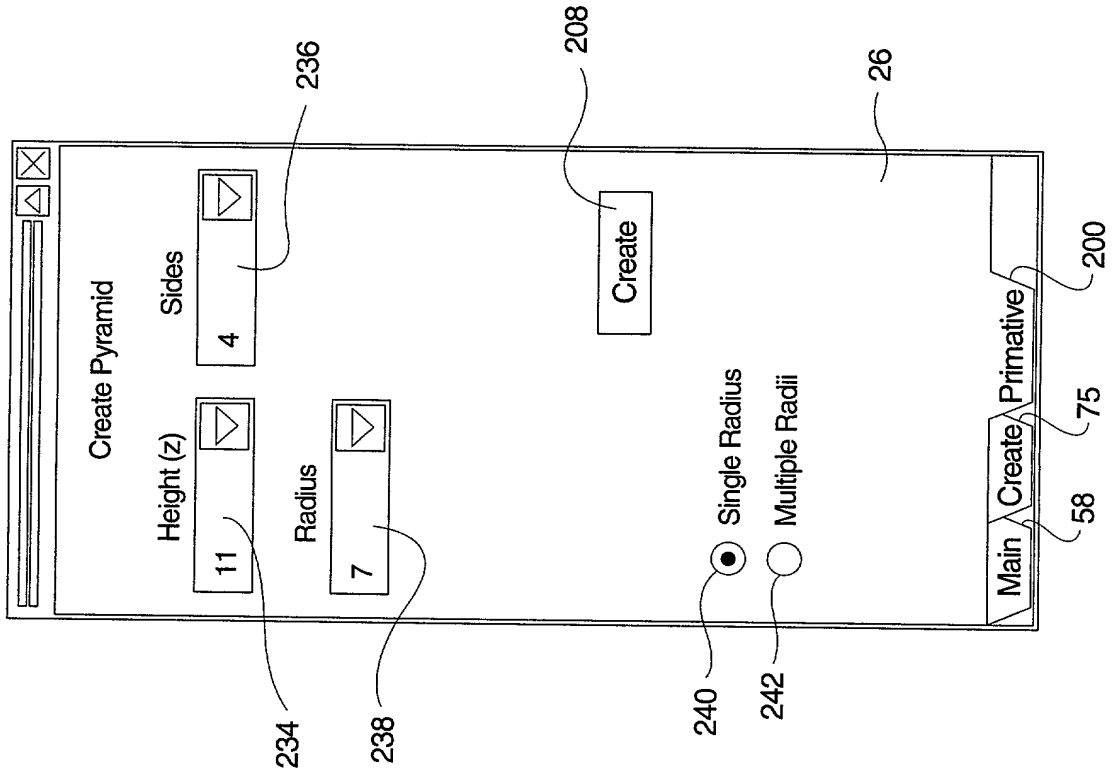
Create Pyramid
Sides
4
Height (z)
11
Radius
7
Create
Single Radius
Multiple Radii
Main
Create
Primative
234
238
240
242
236
208
26
200
75
58

FIG-41-

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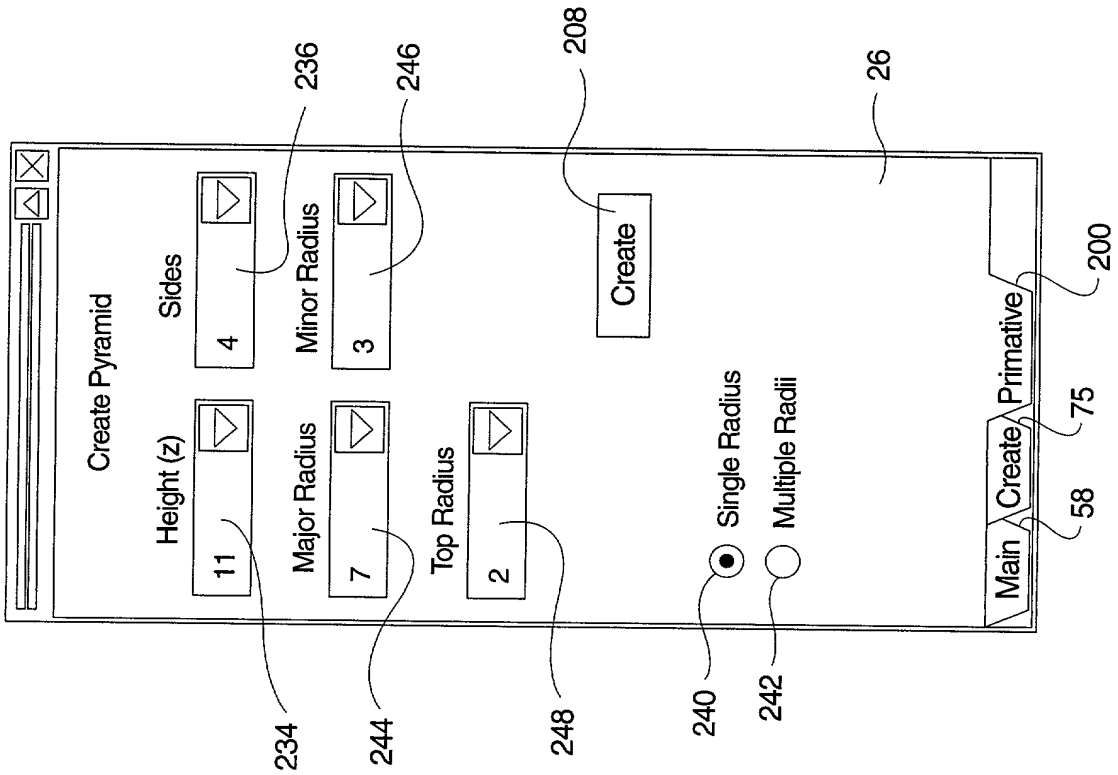

FIG-4m-

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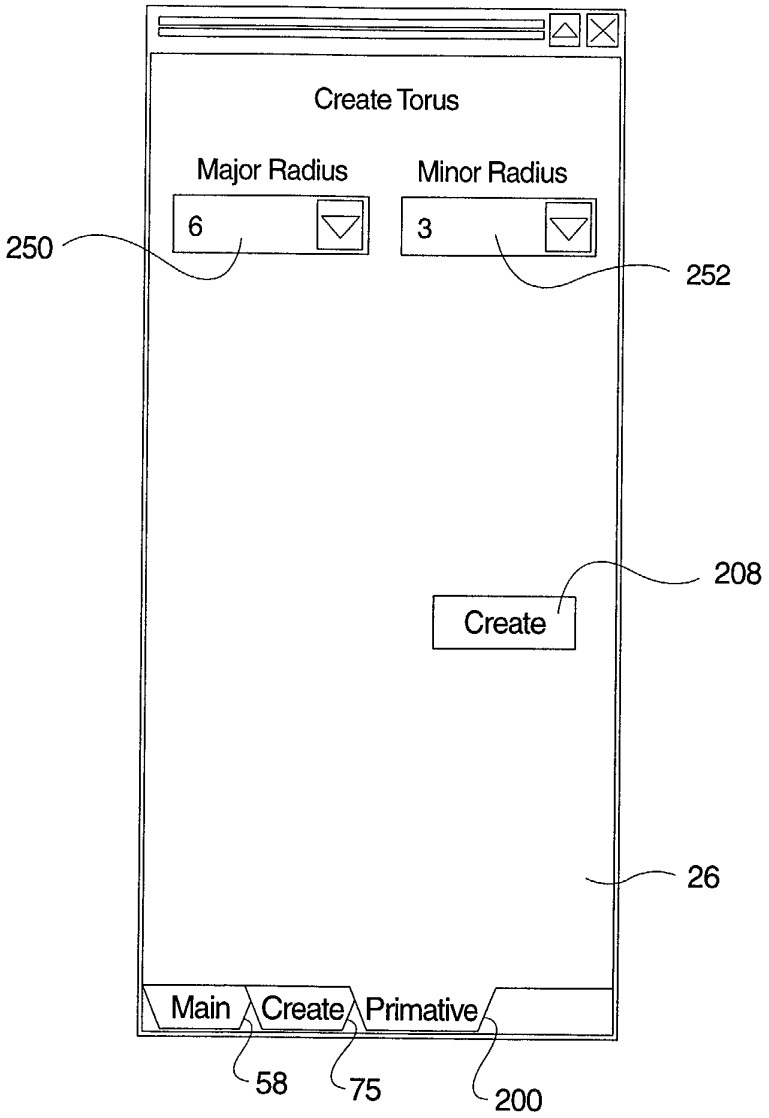
Fig 4h



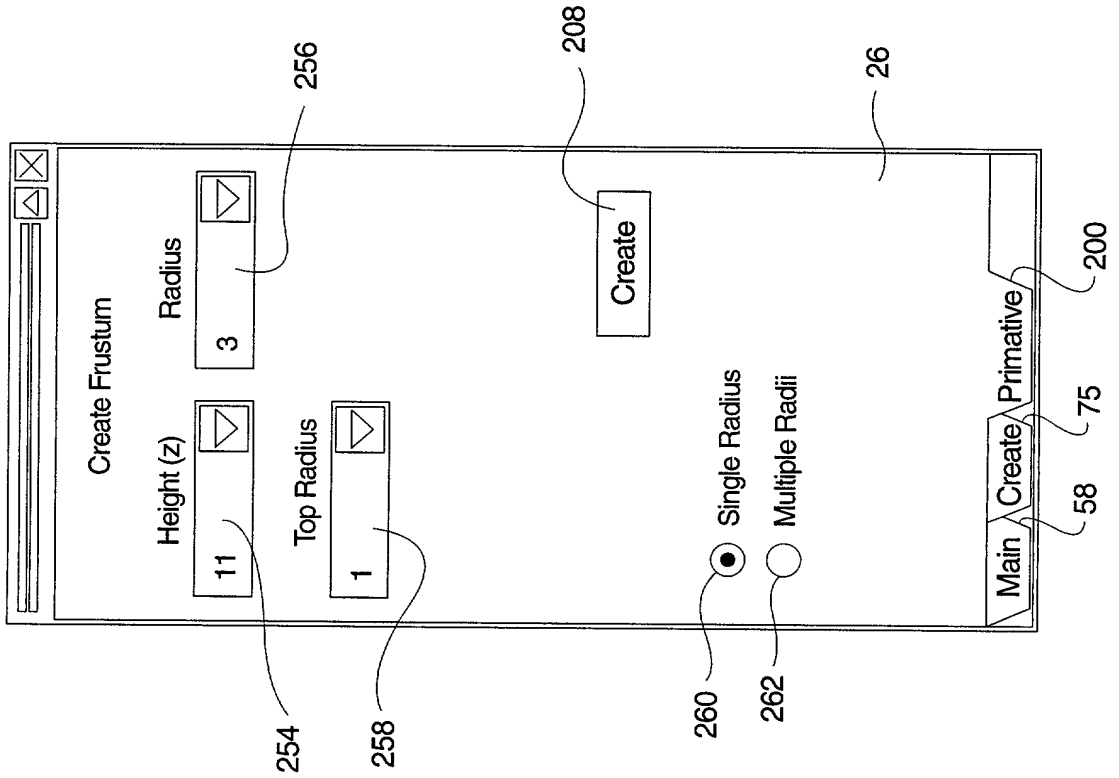

Create Frustum
Height (z)
11
Top Radius
1
Radius
3
Create
Single Radius
Multiple Radii
Main
Create
Primative
254
258
260
262
256
208
26
200
75
58

FIG-4D-

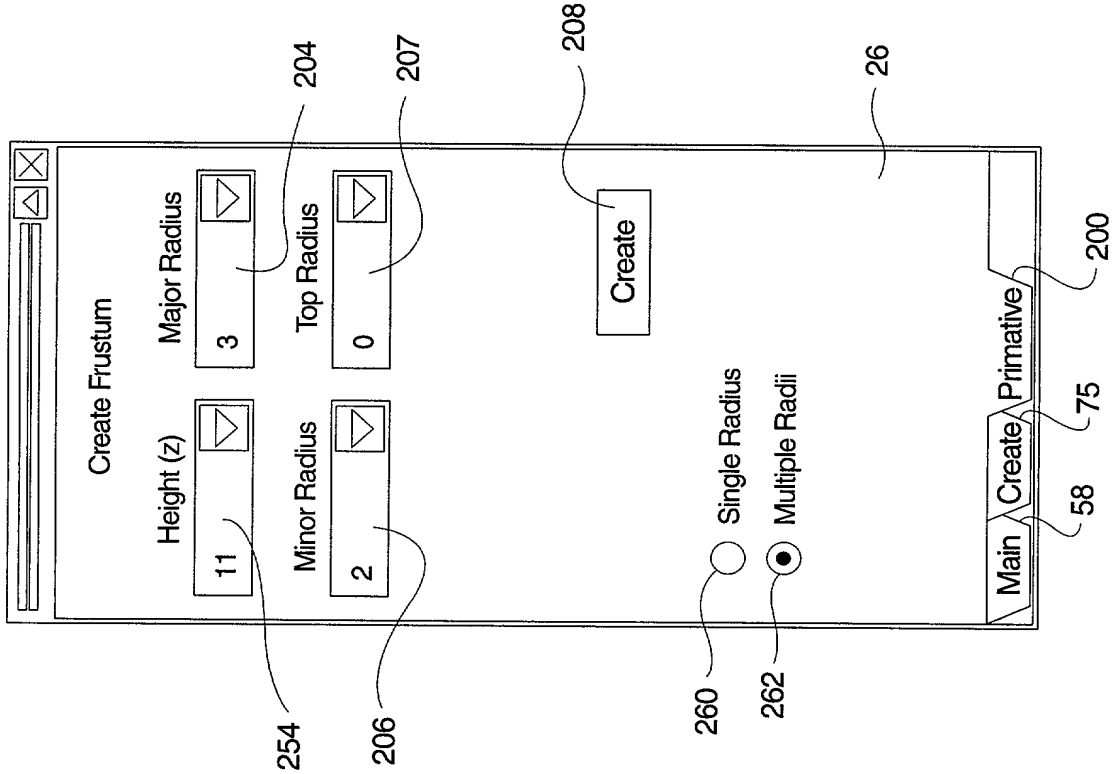

Create Frustum
Height (z)
11
Minor Radius
2
Major Radius
3
Top Radius
0
Create
Single Radius
Multiple Radii
Main
Create
Primative
254
206
204
207
208
26
260
262
200
75
58

FIG-4A-

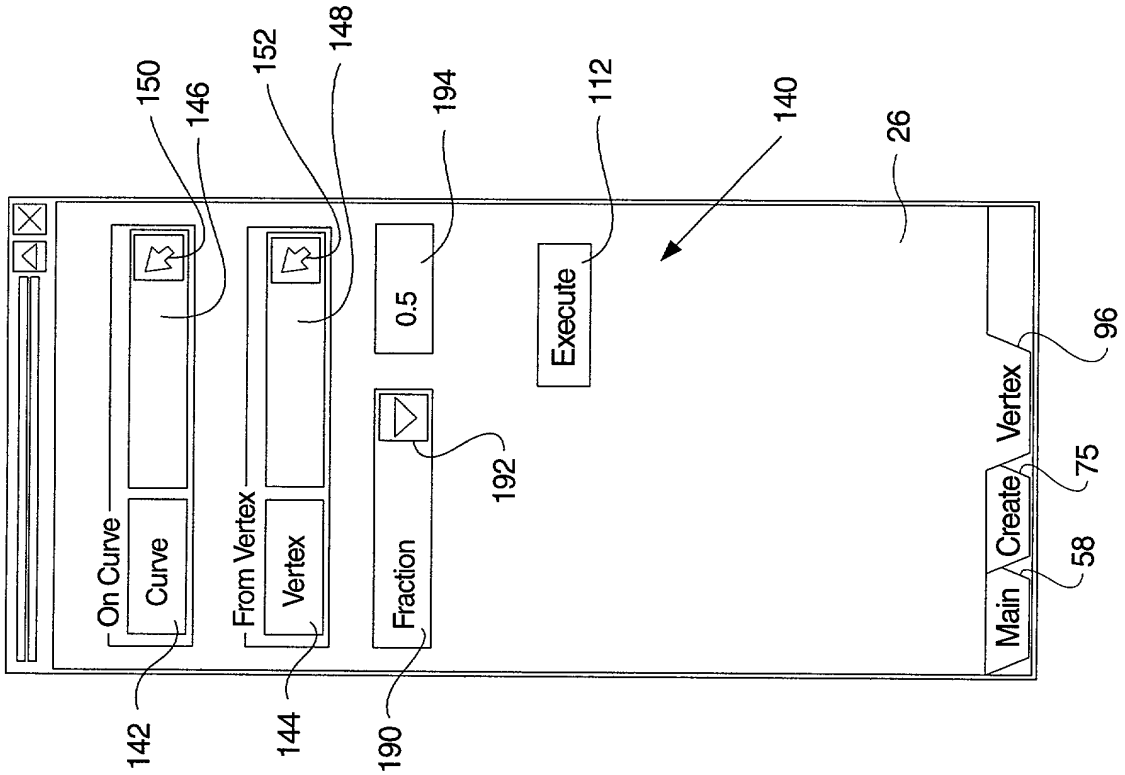

On Curve
Curve
From Vertex
Vertex
Fraction
0.5
Execute
Main
Create
Vertex
142
144
190
192
194
112
140
26
96
75
58
146
148
150
152

FIG-5a-

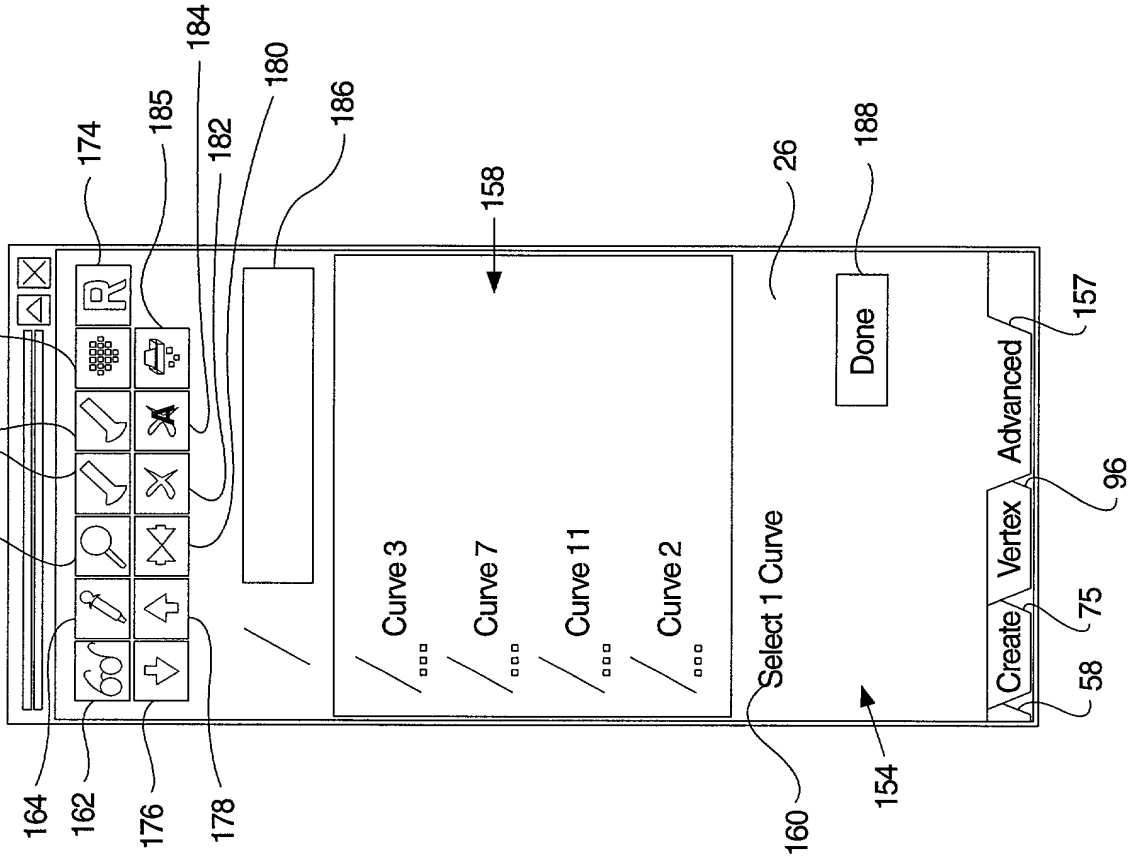

172
170
168
166
174
185
184
182
180
186
158
26
188
157
96
75
58
164
162
176
178
160
154
Curve 3
Curve 7
Curve 11
Curve 2
Select 1 Curve
Done
Advanced
Vertex
Create
R

Fig. 5b

Fig. 5c

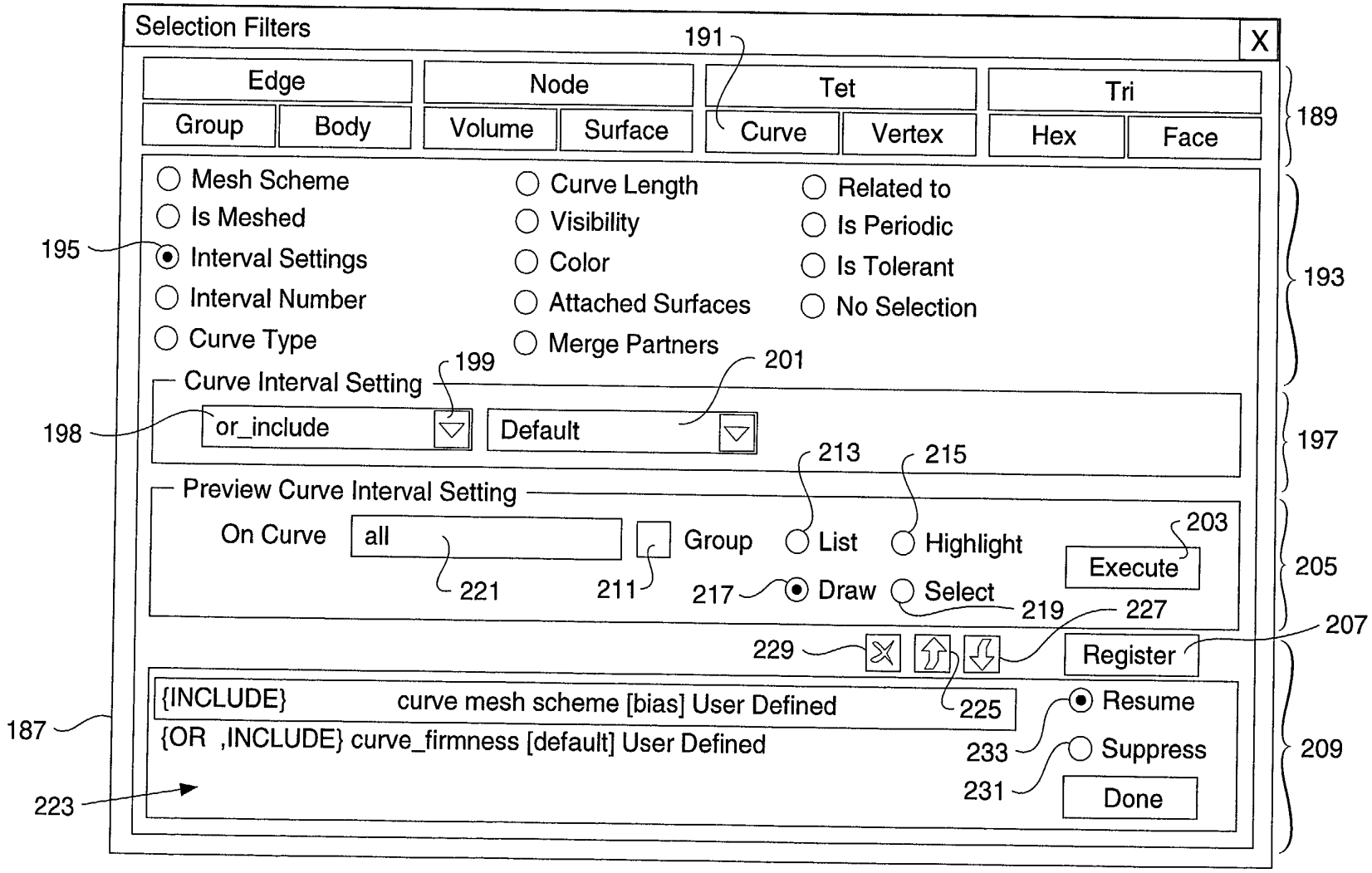
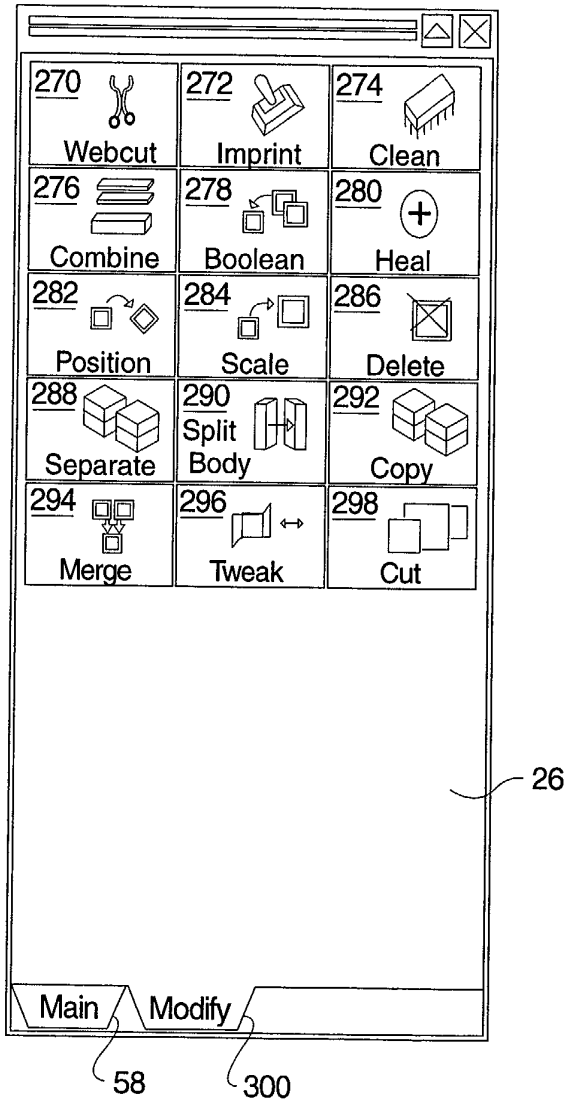

Selection Filters
X
191
Edge
Node
Tet
Tri
Group
Body
Volume
Surface
Curve
Vertex
Hex
Face
189
Mesh Scheme
Is Meshed
Interval Settings
Interval Number
Curve Type
Curve Length
Visibility
Color
Attached Surfaces
Merge Partners
Related to
Is Periodic
Is Tolerant
No Selection
195
193
Curve Interval Setting
199
201
198
or_include
Default
197
213
215
Preview Curve Interval Setting
On Curve
all
Group
List
Highlight
203
Execute
205
221
211
217
Draw
Select
219
227
207
229
Register
{INCLUDE} curve mesh scheme [bias] User Defined
225
Resume
187
{OR ,INCLUDE} curve_firmness [default] User Defined
233
Suppress
209
231
223
Done

Fig_6a_


270
Webcut
272
Imprint
274
Clean
276
Combine
278
Boolean
280
Heal
282
Position
284
Scale
286
Delete
288
Separate
290
Split
Body
292
Copy
294
Merge
296
Tweak
298
Cut
26
Main
Modify
58
300

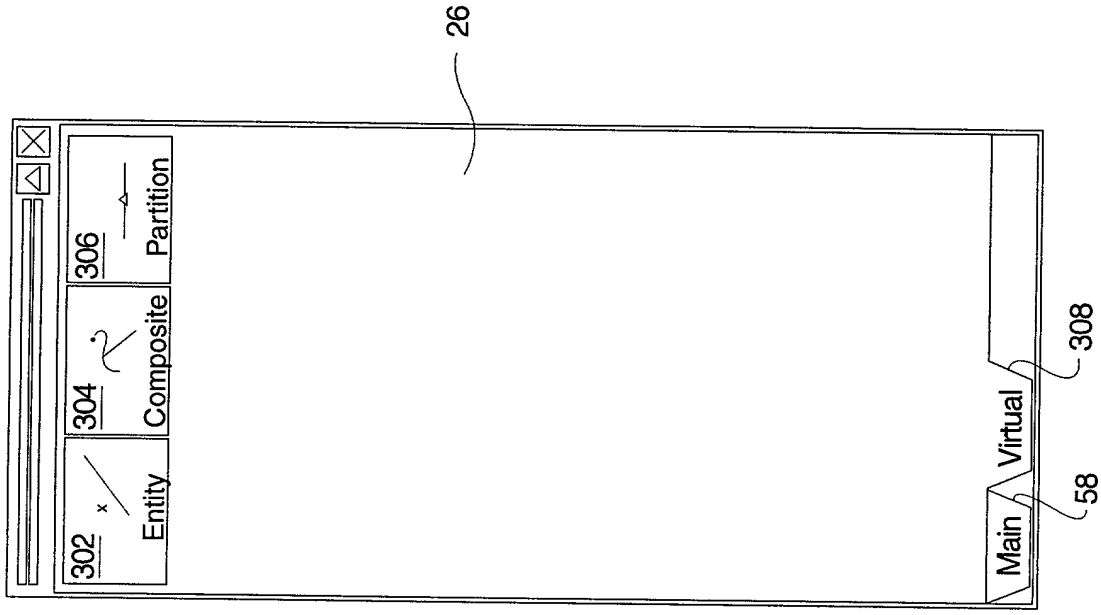

26
302
Entity
304
Composite
306
Partition
Main
Virtual
308
58

FIG-3B-

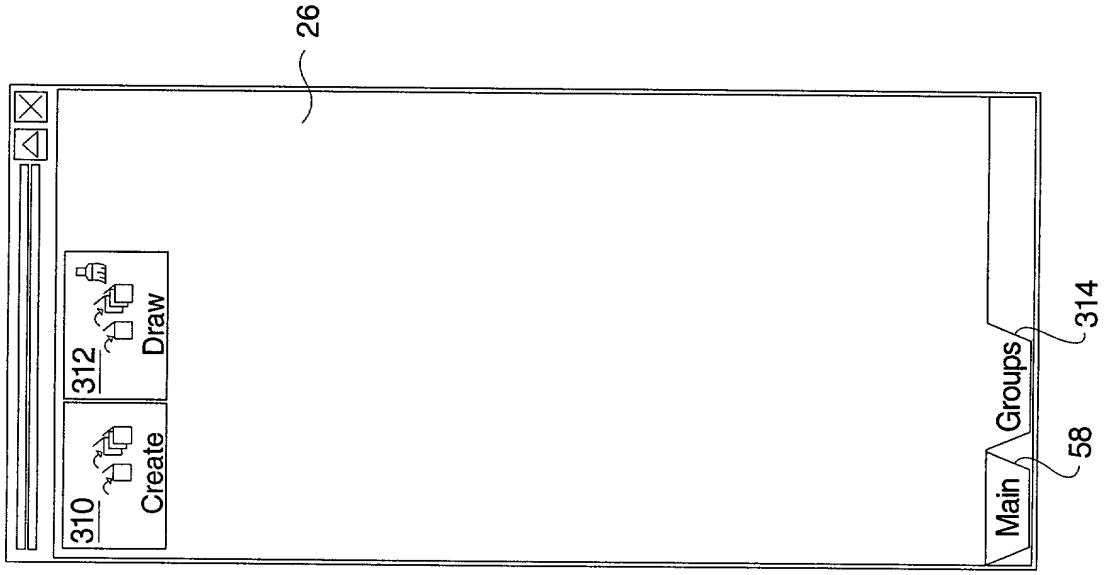
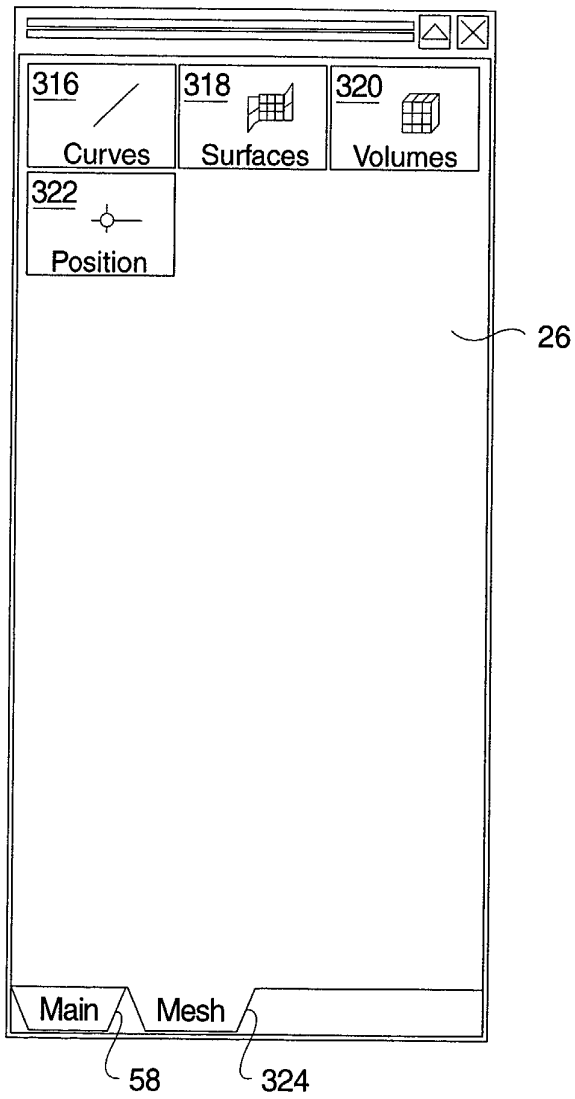


Fig. 8a

Fig. 9a


316
Curves
318
Surfaces
320
Volumes
322
Position
26
Main
Mesh
58
324

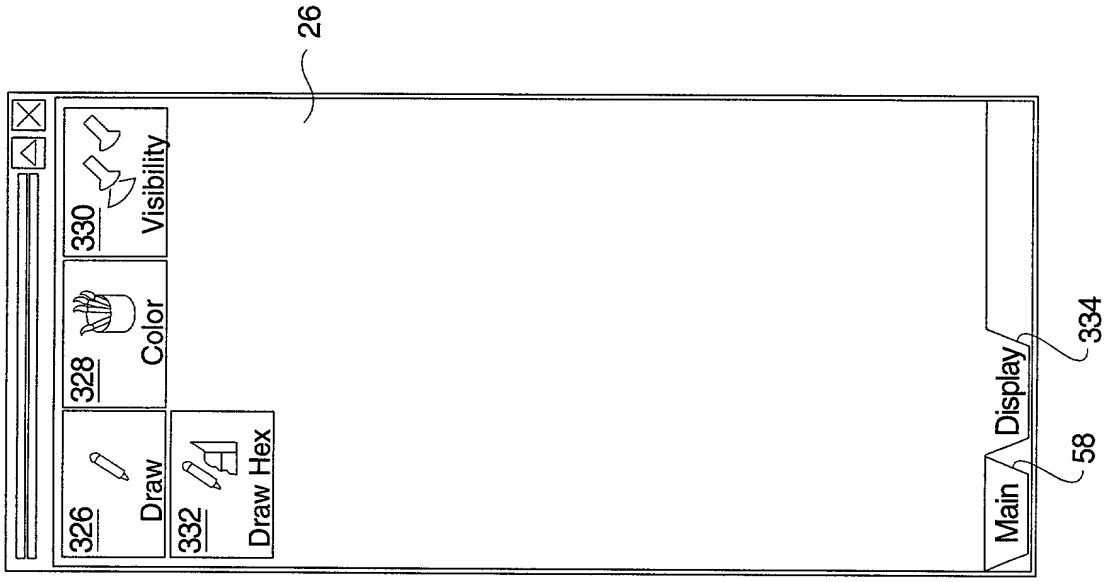

26
326
Draw
328
Color
330
Visibility
332
Draw Hex
Main
Display
58
334

Fig-10a-

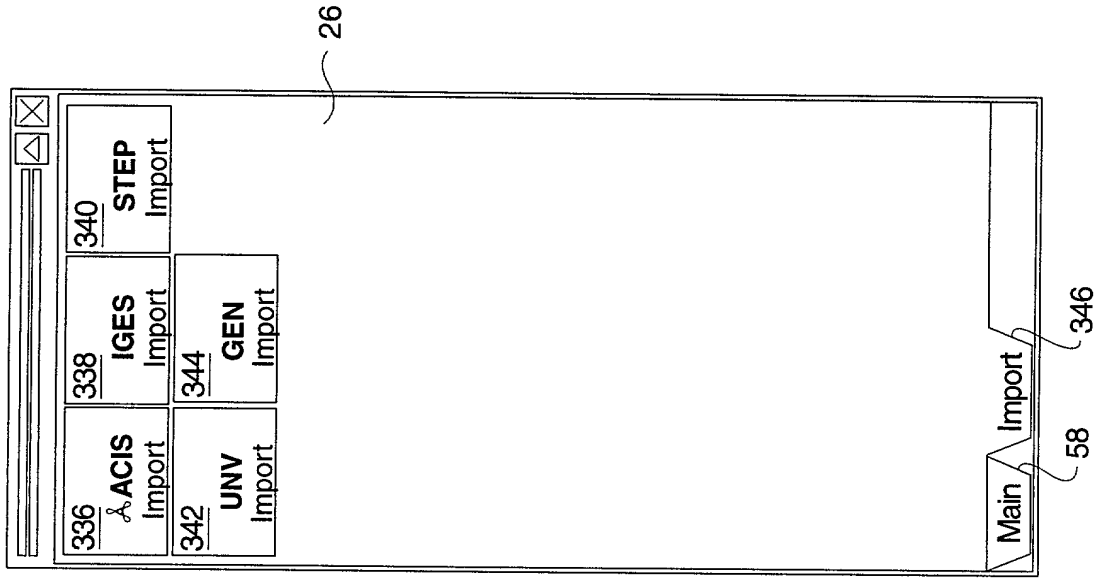

26
336 ACIS Import
338 IGES Import
340 STEP Import
342 UNV Import
344 GEN Import
Main
Import
346
58

Fig-11a-

Fig. 12a

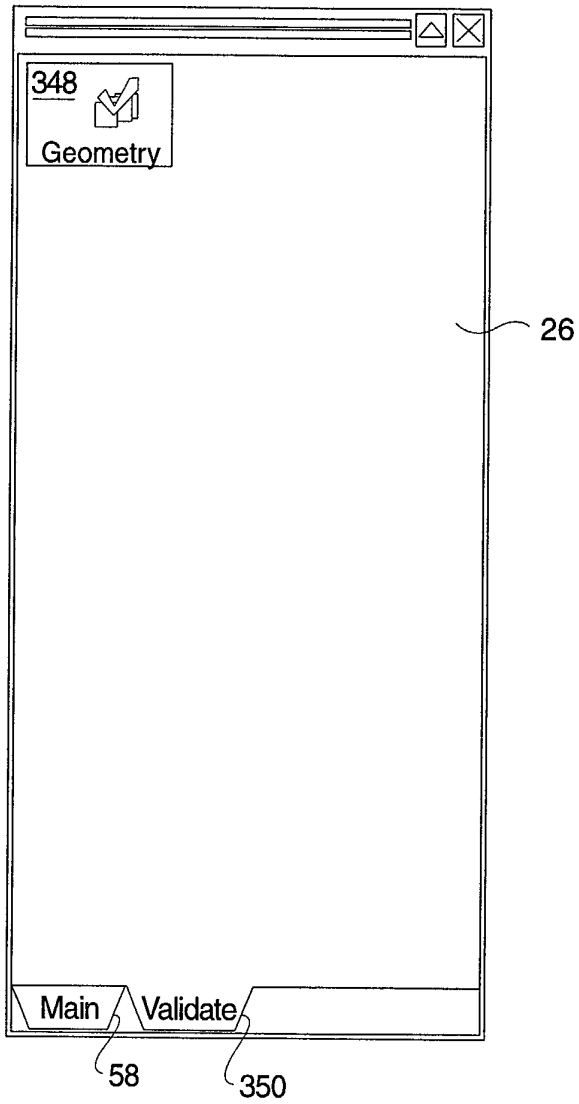


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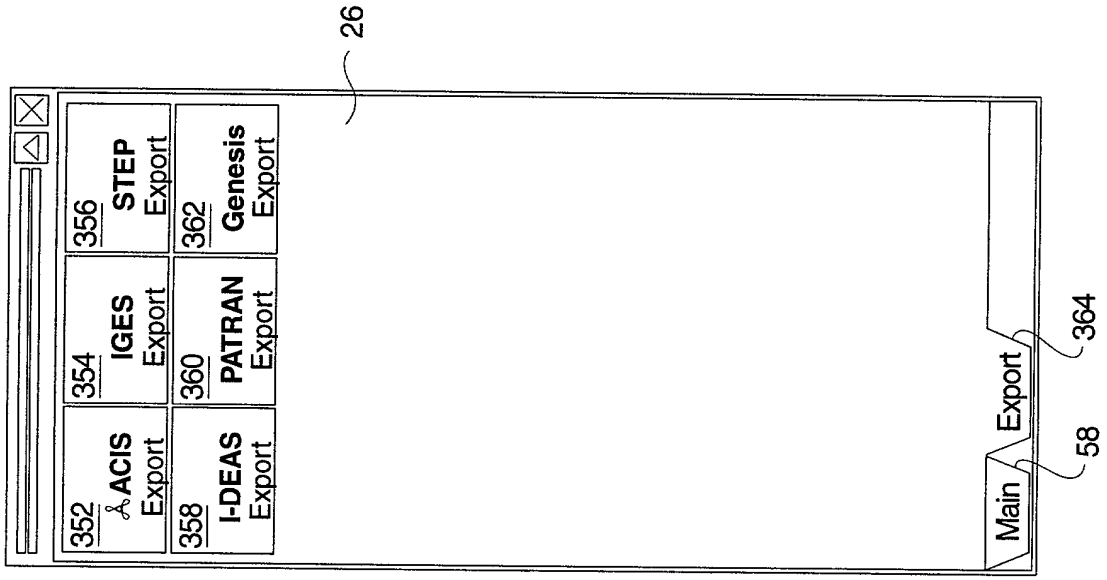
FIG-13-



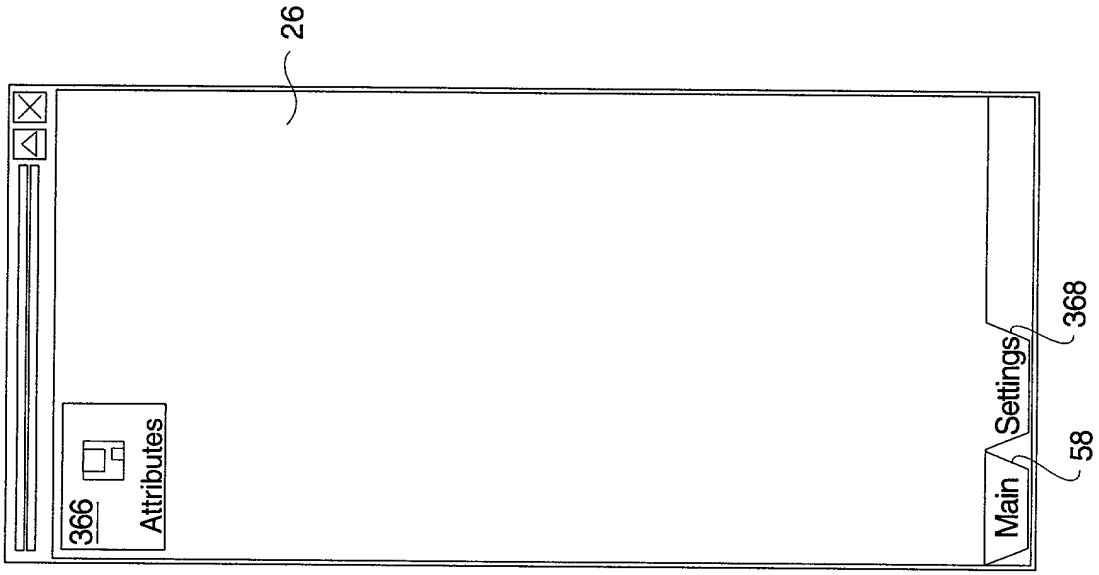


Fig-14a-

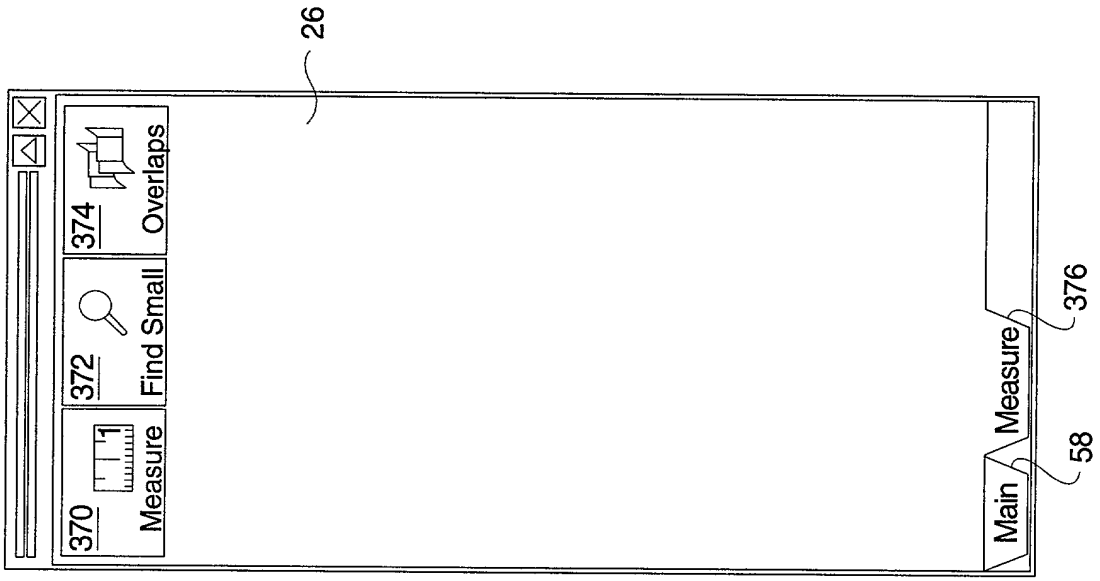
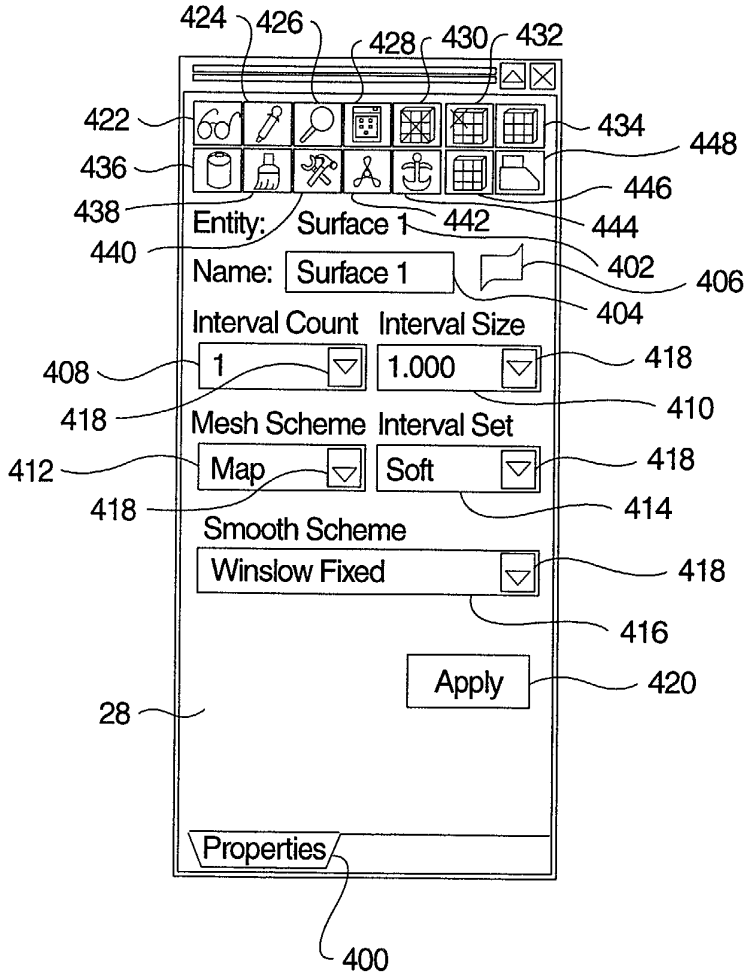

26
370
Measure
372
Find Small
374
Overlaps
Main
Measure
376
58

Fig. 15a

Fig. 16a


424
426
428
430
432
422
434
448
436
446
438
442
444
Entity: Surface 1
440
402
406
Name: Surface 1
404
Interval Count
Interval Size
408
1.000
418
410
Mesh Scheme
Interval Set
412
Map
Soft
418
414
Smooth Scheme
Winslow Fixed
416
Apply
420
28
Properties
400

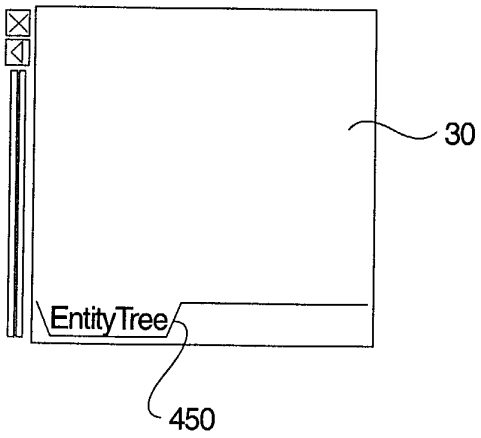


Fig. 17a.

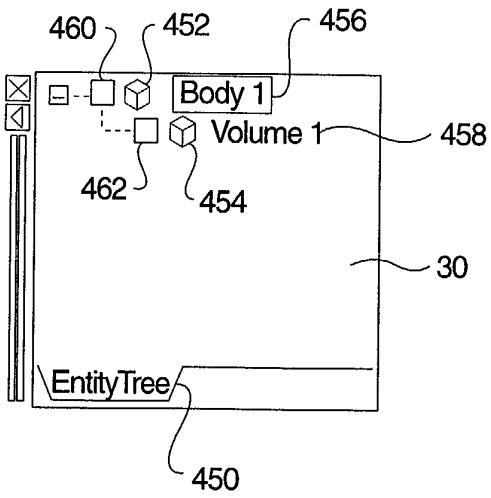
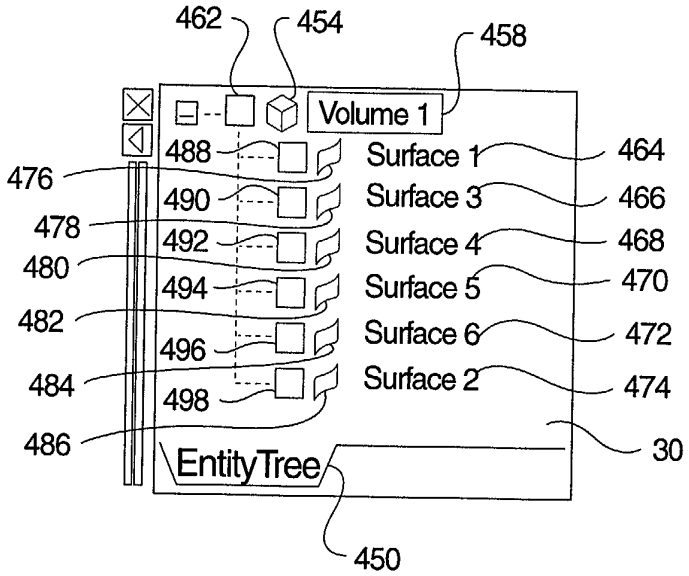


Fig. 17b.

TOE250" 02/E9860

Fig. 17c.



"Express Mail" 02/25/2004

Fig. 10a

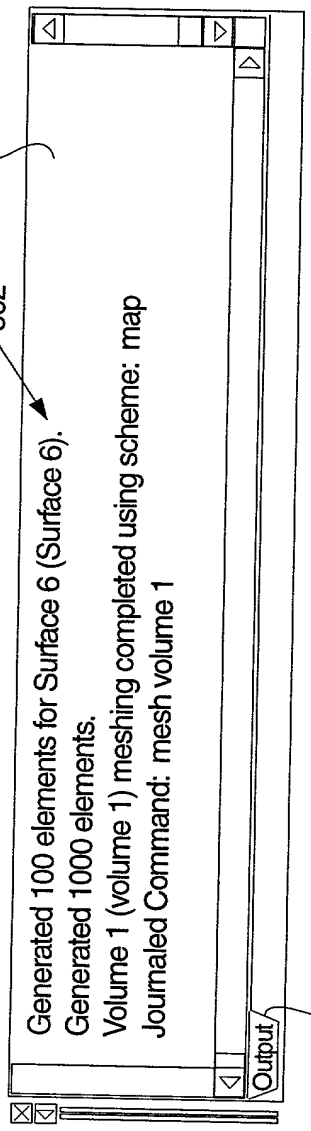


Fig. 19a.

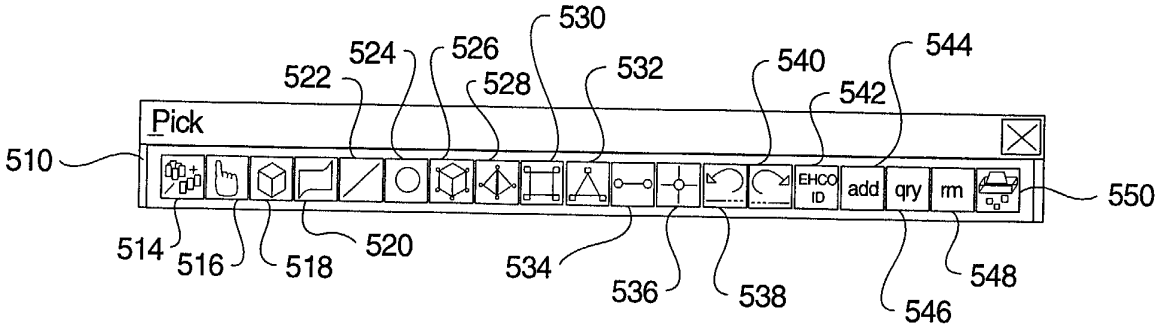
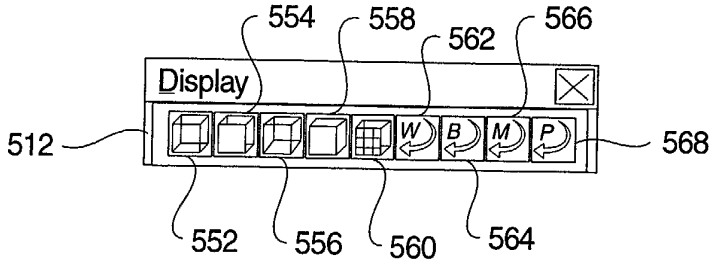



Fig. 19b.